OPERATING INSTRUCTIONS



LEICA DM5000 epi-fl microscope



You must not operate this equipment without prior training from a BALM facility staff member.

To arrange training and for help please contact:

Facility Manager

Dr Ann Wheeler ext: 2406 a.p.wheeler@gmul.ac.uk

Microscopy Technologist

Isma Ali ext: 2407 i.ali@qmul.ac.uk

Standard Operating Procedure — Colour

How to turn the equipment on:

- 1. Switch on the Leica controller box
- 2. Switch on the computer and log in
- 3. Make sure the lever on the RHS of the microscope is in

How to turn the equipment off:

- 1. Switch off the computer
- 2. Switch off the Leica controller box

Rules of use:

This microscope should be treated with respect and care at all times.

This Microscope can be used by Masters, Research or PhD students, Postdocs and members of staff independently after training. MBBS and BSc students must be supervised by a member of research staff at all times.

The microscope lenses must be cleaned after every usage.

If you have any problems at all with the microscope, no matter how trivial they may seem please see a BALM facility staff memberimmediately.

REMEMBER: You have 5GB of disk space on this microscope. Check before you start if you have room for your experiment. If not, delete your old data.

1) Open LAS software



NB: The software takes a while to load

- 2) Place slide on microscope stage and choose objective lens
- 3) Make sure the rod on the RHS of the microscope is pushed in. This sends the light to the colour camera.

Objectives available:

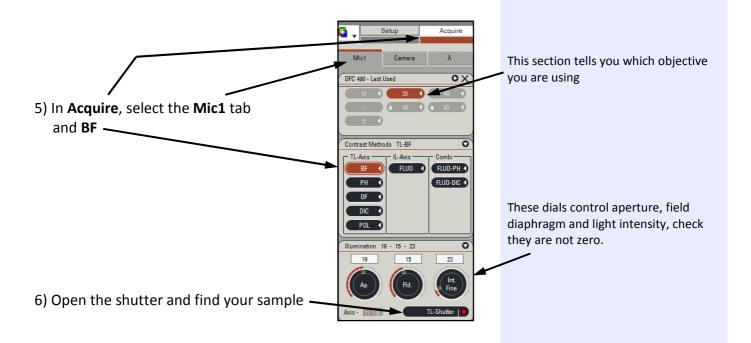
4x, 10x, 20x, 40x (air)

40x and 63x (oil)

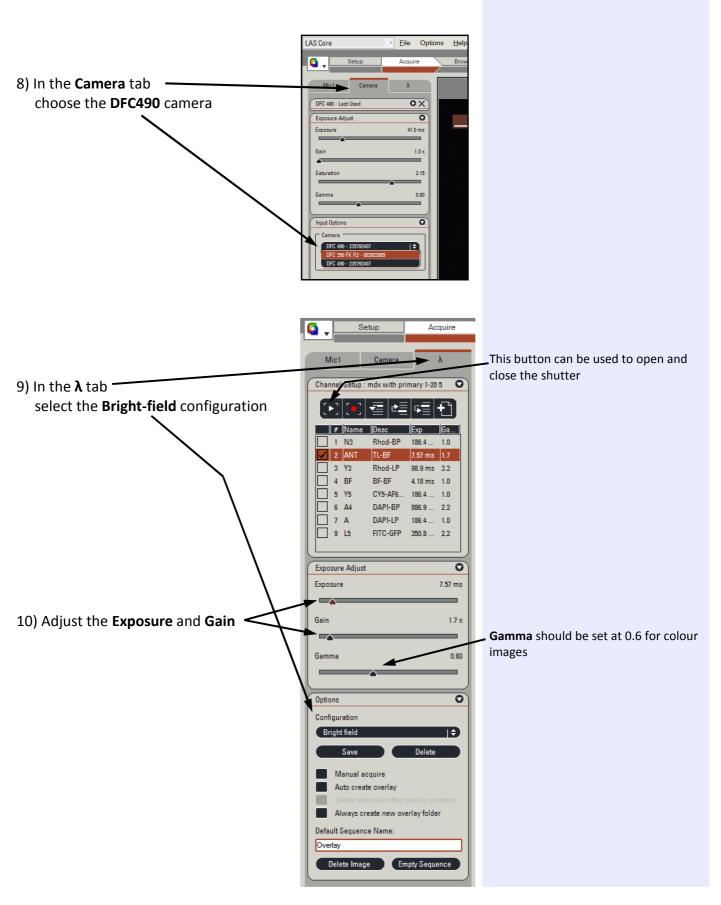
Move by hand, not automated

NB: please LOWER THE STAGE before changing between objectives (to avoid crashing lens onto slide)

4) Check rod on LHS is pushed IN to direct the light to the eyepiece



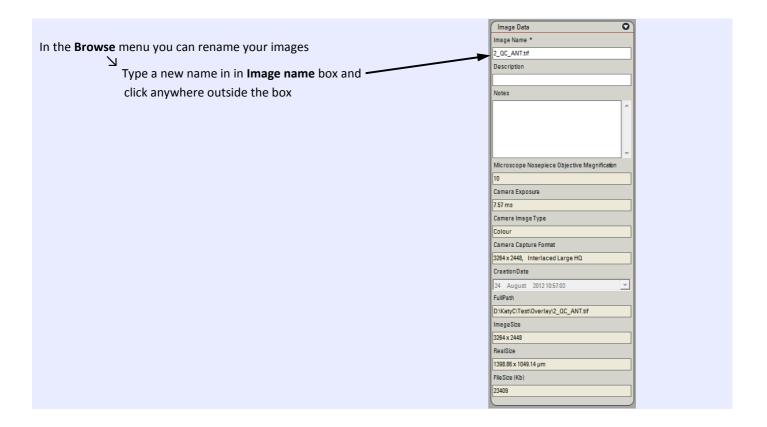
7) Pull OUT rod on LHS to direct light to the camera



If needed, there is an auto exposure tool here

11) In the Browse menu, select a folder to save your data by clicking the Set capture location button

16) In the Acquire tab click Acquire Image



15) Go back to the Acquire menu to take the next picture

When you have finished, transfer all your data to the **Z network drive**

PLEASE TIDY UP!!

Clean lenses, throw away used tissue/lens tissue, dispose of old slides in the yellow sharps bin